CLAIMS

- (Currently Amended) A method of printing an electronic component comprising: providing a surface;
 - providing a redox couple comprising an oxidizer and a reducer;
 - solubilizing at least one of the oxidizer and the reducer in a first solution that contains no more than 5% particulates by weight;
 - applying the first solution to the surface in a desired pattern <u>rather than coating the entire</u> <u>surface with the first solution</u>, to create a first layer;
 - initiating a redox reaction in the first layer; and completing the component by adding at least one additional layer.
- 2. (Currently Amended) The method of claim 1 wherein the component comprises is an active component.
- (Original) The method of claim 1 wherein the component comprises an integrated component.
- 4. (Original) The method of claim 1 wherein the component comprises a power source.
- 5. (Original) The method of claim 1 wherein the component comprises a battery.
- 6. (Original) The method of claim 1 wherein at least one of the oxidizer and the reducer comprises a metal containing compound, the metal selected from the list consisting of copper, iron, cobalt, tin, gold, silver, palladium, platinum, nickel, lithium, aluminum, and titanium.
- 7. (Original) The method of claim 1 wherein the oxidizer is a strong oxidizer and the reducer is a strong reducer.
- 8. (Original) The method of claim 1 wherein the redox couple includes a material selected from the list consisting of formate, nitrate, alkoxide nitrate, alkoxide perchlorate, acetate nitrate, acrylate nitrate.

- 9. (Currently Amended) The method of claim 1 wherein the step of applying comprises depositing the first solution using at least one of a stamp, a rotating plate, and a jet.
- 10. (Currently Amended) The method of claim 1 wherein at least one of the <u>first layer or the</u>

 <u>at least of one additional</u> layers comprises an electrolyte.
- 11. (Original) The method of claim 1 wherein the redox reaction results in the first layer consisting essentially of a pure metal.
- 12. (Original) The method of claim 1 wherein the redox reaction results in the first layer consisting essentially of a mixed metal oxide.
- 13. (Currently Amended) The method of claim 1 wherein the step of initiating the redox reaction comprising radiating the applied solution with microwave radiation.
- 14. (Currently Amended) The method of claim 1 wherein the step of completing the component comprises:
 providing a second redox couple comprising a second oxidizer and a second reducer;
 solubilizing at least one of the second oxidizer and the second reducer in a second solution;
 - depositing the second solution onto the first layer, and initiating a redox reaction in the second solution.
- 15. (Currently Amended) The method of claim 1 wherein the component comprises a battery, and the step of applying comprises depositing the first solution using at least one of a stamp, a rotating plate, and a jet.
- 16. (Currently Amended) The method of claim 1 further comprising: providing a second redox couple comprising a second oxidizer and a second reducer; solubilizing at least one of the second oxidizer and the second reducer in a second solution;
 - depositing successive <u>deposits layers</u> of the second solution, and initiating a redox reaction in the successive deposits <u>layers</u> to produce a solid conductor that

electrically couples at least two of the layers of the component that are mutually non-adjacent.

- 17. Canceled.
- 18. Canceled.
- 19. (Currently Amended) A method of printing an electronic circuit comprising: printing a plurality of components according to one of the methods of claim 1 of any of claims 1 16; and applying the first solution to the surface in a desired pattern that connects at least two of the plurality of components, and initiating a the redox reaction in the desired
- 20. (Currently Amended) The method of claim 19 wherein the pattern has a lateral resolution below 10 μ m.

pattern to produce a conductive trace between the at least two components.

- 21. (Currently Amended) The method of claim 19 wherein the circuit includes a transistor, a power source, and a capacitor.
- 22. (New) The method of claim 1 dependent on claim 1, applying the oxidizer and reducer in the desired pattern.
- 23. (New) The method of claim 1 wherein the reducer and the oxidizer are each applied to the surface in the desired pattern.
- 24. (New) A method of printing an electronic component comprising: providing a surface; providing a redox couple comprising an oxidizer and a reducer; solubilizing at least one of the oxidizer and the reducer in a first solution that contains no more than 5% particulates by weight; applying the first solution to the surface in a pattern of a trace to create a first later; applying energy to the entire surface; initiating a redox reaction in the first layer; and completing the component by adding at least one additional layer.